

WHAT IS CLAIMED IS:

A communications apparatus comprising:

a serial data interface having a-data carrier detect (DCD) line and a request to send (RTS) line each coupled to a modem, wherein the modem couples to a twisted pair line that couples to a plurality of remote devices; and

a processor operable to detect/a de-assertion of the DCD line, to assert the RTS line after a period of time from detecting the de-assertion of the DCD line, to communicate information to a selected one of the remote devices while the RTS line is asserted, and to de-assert the RTS line after communicating the information.

- The apparatus of Claim 1, wherein the serial data interface is an RS-2. 232 interface.
- 3. The apparatus of Claim 1, wherein asserting the RTS line requests the modem to generate a carrier signal that causes assertion of DCD lines for the remote devices coupled to the twisted pair line.
- 4. The apparatus of Claim 1, wherein the selected remote device comprises a master station managing a plurality of components of a supervisory control and data acquisition (SCADA) system using the twisted pair line.
- 5. The apparatus of Claim 1, further comprising a component interface operable to receive data from a component for communication to the selected remote device.
- 6. The apparatus of Claim 5, wherein the processor is further operable to generate internet protocol (IP) packets encoding the data and to communicate the packets to the selected remote device while the RTS line is asserted.

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7. The apparatus of Claim 5, wherein the processor is further operable to: detect an assertion of the DCD line;

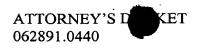
receive a communication from the selected remote device, wherein the communication comprises an address and a command;

determine that the address indicates the component; and issue the command to the component.

- 8. The apparatus of Claim 1, wherein the period of time comprises a propagation delay for signals transmitted on the twisted pair line.
- 9. The apparatus of Claim 8, wherein the propagation delay is a predetermined value.
- 10. The apparatus of Claim 1, wherein the period of time comprises a random period of time after the propagation delay.

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A method for communicating information over a twisted pair line comprising:

detecting a de-assertion of a data carrier detect (DCD) line for a serial data interface, wherein the serial data interface couples to a modem coupled to a twisted pair line;

after a period of time from detecting the de-assertion of the DCD line, asserting a request to send (RTS) line for the serial data interface, wherein asserting the RTS line requests the modem to generate a carrier signal that causes assertion of DCD lines for a plurality of remote devices coupled to the twisted pair line;

communicating information to a selected one of the remote devices while the RTS line is asserted; and

de-asserting the RTS line after communicating the information.

- 12. The method of Claim 11, wherein the serial data interface comprises an RS-232 interface.
- 13. The method of Claim 11, wherein the information comprises internet protocol (IP) packets.
- 14. The method of Claim 11, wherein the selected remote device comprises a master station managing a plurality of components of a supervisory control and data acquisition (SCADA) system using the twisted pair line.
 - 15. The method of Claim 14, further comprising:

detecting an assertion of the DCD line;

receiving a communication from the master station, wherein the communication comprises an address and a command;

determining that the address indicates a local component; and issuing the command to the local component.

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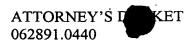
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- 16. The method of Claim 11, wherein the period of time comprises a propagation delay for signals transmitted on the twisted pair line.
- 17. The method of Claim 16, wherein the propagation delay is a predetermined value.
 - 18. The method of Claim 11, wherein the period of time comprises a random period of time after the propagation delay.





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Logic for communicating information over a twisted pair line, the logic encoded in media and operable to:

detect a de-assertion of a data carrier detect (DCD) line for a serial data interface, wherein the serial data interface couples to a modem coupled to a twisted pair line;

after a period of time from detecting the de-assertion of the DCD line, assert a request to send (RTS) line for the serial data interface, wherein asserting the RTS line requests the modem to generate a carrier signal that causes assertion of DCD lines for a plurality of remote devices coupled to the twisted pair line;

communicate information to a selected one of the remote devices while the RTS line is asserted; and

de-assert the RTS line after communicating the information.

- 20. The logic of Claim 19, wherein the serial data interface comprises an RS-232 interface.
- 21. The logic of Claim 19, wherein the information comprises internet protocol (IP) packets.
- 22. The logic of Claim 19, wherein the selected remote device comprises a master station managing a plurality of components of a supervisory control and data acquisition (SCADA) system using the twisted pair line.
 - 23. The logic of Claim 22, further operable to:

detect an assertion of the DCD line;

receive a communication from the master station, wherein the communication comprises an address and a command;

determine that the address indicates a local component; and issue the command to the local component.

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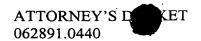
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- TENT APPLICATION
- 24. The logic of Claim 19, wherein the period of time comprises a propagation delay for signals transmitted on the twisted pair line.
- 25. The logic of Claim 24, wherein the propagation delay is a predetermined value.
 - 26. The logic of Claim 19, wherein the period of time comprises a random period of time after the propagation delay.





A communications apparatus comprising:

means for detecting a de-assertion of a data carrier detect (DCD) line for a serial data interface, wherein the serial data interface couples to a modem coupled to a twisted pair line;

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means for, after a period of time from detecting the de-assertion of the DCD line, asserting a request to send (RTS) line for the serial data interface, wherein asserting the RTS line requests the modem to generate a carrier signal that causes assertion of DCD lines for a plurality of remote devices coupled to the twisted pair line;

means for communicating information to a selected one of the remote devices while the RTS line is asserted; and

means for de-asserting the RTS line after communicating the information.

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The communications apparatus of Claim 27, further comprising: 28. means for detecting an assertion of the DCD line;

means for receiving a communication from a master station, wherein the communication comprises an address and a command;

means for determining that the address indicates a local component; and means for issuing the command to the local component.